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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/030,721	01/11/2002	Yasuyuki Sanai	CM-184	8266
	75	590 07/14/2003			
	Johnson Polyr		EXAMINER		
	Patent Section MS 509 8310 16th Street			EGWIM, KELECHI CHIDI	
	PO Box 902 Sturtevant, WI	53177-0902		ART UNIT	PAPER NUMBER
	<b>2.01.00</b> (			1713	
				DATE MAILED: 07/14/2003	6

Please find below and/or attached an Office communication concerning this application or proceeding.

*						
7)	Application No.	Applicant(s)				
Offic Action Summary	10/030,721	SANAI ET AL.				
One Action Summary	Examiner	Art Unit				
The MAH INC DATE of this communication are	Dr. Kelechi C. Egwim	1713				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Peri d for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on 11 January 2002						
2a) This action is <b>FINAL</b> . 2b) ⊠ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disp sition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>1-11</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.					
··· <u> </u>	· · · · · · · · · · · · · · · · · · ·					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Pri rity under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(	a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents		tion No.				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.  S. Patent and Trademark Office.	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				

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#### **DETAILED ACTION**

1. The information disclosure statement filed 3/7/02 has been considered to the extent that is possible from the content of the application for those documents not in the English language.

### Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential subject matter in steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted essential subject matter has to do with the limitation "adding at least one vinyl monomer continuously or intermittently to the aqueous solution of the neutralized macromonomer". While the claim recites "wherein the emulsion polymerizing includes", the actual initiation of polymerization is not recited or indicated as a step in this claim. As such, it is unclear what limitation applicant means to encompass by "continuously or intermittently". Does this step relate to the initiated propagation step(s) or the pre-emulsion?

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### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Huybrechts et al. (CA 2,149,399)

In page 5, lines 5-36 and col. 12, lines 11-34 and the Examples, Huybrechts et al teach an aqueous resin dispersion prepared by free radical polymerization of vinyl monomers in the presence of a neutralized (see col. 19, lines 18-24) terminally unsaturated ionic acrylic macromonomer (emulsion stabilizer) having an average molecular weight of between 500 and 30,000, prepared from, for example methyl methacrylate and 40% methacrylic acid. In page 17, line 1, the terminally unsaturated macromonomer is taught to be prepared at temperatures up to 200 °C.

Thus, the requirements for rejection under 35 U.S.C. 102(b) are met.

## Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 1-11 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al. (JP 06172466)

Yamamoto et al. teach an aqueous resin dispersion prepared by free radical polymerization of vinyl monomers in the presence of a neutralized (see col. 19, lines 18-24) terminally unsaturated ionic macromonomer (emulsion stabilizer) with a methacryloyl group at the terminals. (See abstract).

Even if assuming that the prior art reference does not meet the requirements of 35 U.S.C. 102, it would still have been obvious to one of ordinary skill in the art, at the time the invention was made, to arrive at the same inventive composition because the disclosure of the inventive subject matter appears within the generic disclosure of the prior art. See MPEP § 2111 - § 2117.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kelechi C. Egwim whose telephone number is (703) 306-5701. The examiner can normally be reached on M-T (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (703) 308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

KCE

July 2, 2003